

<b>Interview Summary</b>	<b>Application No.</b> 09/924,400	<b>Applicant(s)</b> FRUDAKIS ET AL.	
	<b>Examiner</b> Mary K. Zeman	<b>Art Unit</b> 1631	

All participants (applicant, applicant's representative, PTO personnel):

- (1) Mary K. Zeman. (3) \_\_\_\_\_  
 (2) Julie Urvater. (4) \_\_\_\_\_

Date of Interview: 12 December 2005.

Type: a) ☒ Telephonic b) ☐ Video Conference  
 c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.  
 If Yes, brief description: \_\_\_\_\_

Claim(s) discussed: 18, 15.

Identification of prior art discussed: N/A.

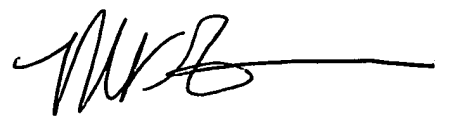
Agreement with respect to the claims f) ☐ was reached. g) ☒ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: the examiner proposed amendments to claim 18, and proposed to cancel claim 15 to place the application in condition for allowance. Applicant had not responded by 12/21/05.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

  
 Examiner's signature, if required

## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

#### Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

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\*\*\* TX REPORT \*\*\*  
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TRANSMISSION OK

TX/RX NO	4782	
CONNECTION TEL		912066826031
SUBADDRESS		
CONNECTION ID		
ST. TIME	12/12 15:38	
USAGE T	01'53	
PGS. SENT	4	
RESULT	OK	

ATTACHMENT  
TO  
INTERVIEW  
SUMMARY



UNITED STATES PATENT AND TRADEMARK OFFICE

ATTACHMENT TO  
INTERVIEW  
SUMMARY

Commissioner for Patents  
United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450  
www.uspto.gov

# Fax Cover Sheet

Date: 12 Dec 2005

To: Julie Urwater	From: Mary K. Zeman
Application/Control Number: 09/924,400	Art Unit: 1631
Fax No.: 206 682 6031	Phone No.: (571) 272 0723
Voice No.: 206-622-4900	Return Fax No.: (571) 273-8300
Re: proposed examiner amendment	CC:
<input type="checkbox"/> Urgent	<input checked="" type="checkbox"/> For Review
<input type="checkbox"/> For Comment	<input type="checkbox"/> For Reply
<input type="checkbox"/> Per Your Request	

## Comments:

Here is the proposed amendment to claim 18 which would appear to make claim 18 (and vector/ host/ composition claim embodiments which depend from 18) allowable. I still have to perform an updated sequence search, but this amendment would obviate the written description rejection. Claim 15 (primer/ probe) would not be allowable over the Frudakis reference, and would need to be canceled. Please call me to discuss, preferably before 12/16.  
Thanks, Mary Z

MARY K. ZEMAN  
PRIMARY EXAMINER

Number of pages \_\_ including this page

## STATEMENT OF CONFIDENTIALITY

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# ATTACHMENT TO INTERVIEW SUMMARY

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## PROPOSAL

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with XXX on XX/XX/XX.

The application has been amended as follows:

Claim 15 has been canceled.

Claim 18 has been rewritten as:

An isolated cDNA comprising a sequence selected from the group consisting of:

(a) the sequence provided in SEQ ID NO: 302, or an isolated cDNA sequence encoding the polypeptide of SEQ ID NO: 305;

(b) the sequence provided in SEQ ID NO: 303, or an isolated cDNA sequence encoding the polypeptide of SEQ ID NO: 306; and

(c) the full length complement of the sequence provided in SEQ ID NO: 302 or 303.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary K Zeman whose telephone number is (571) 272 0723

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel, PhD can be reached on (571) 272 0718. The fax phone number for the organization where this application or proceeding is assigned is 571 273 8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the

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# ATTACHMENT

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USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

# PROPOSAL

# ATTACHMENT TO INTERVIEW SUMMARY

210121.419C12

to as isoforms B11C-15, B11C-8 and B11C-9,16. The determined cDNA sequences for these isoforms are provided in SEQ ID NO: 301-303, with the corresponding predicted amino acid sequences being provided in SEQ ID NOs: 304-306.

301:304  
302:305  
303:306

- The protein coding region of B11C-15 (SEQ ID NO: 301) also referred to as
- 5 B305D isoform C) was used as a query sequence in a BLASTN search of the Genbank DNA database. A match was found to a genomic clone from chromosome 21 (Accession no. AP001465). The pairwise alignments provided in the BLASTN output were used to identify the putative exon, or coding, sequence of the chromosome 21 sequence that corresponds to the B305D sequence. Based on the BlastN pairwise alignments, the
- 10 following pieces of GenBank record AP001465 were put together: base pairs 67978-68499, 72870-72987, 73144-73335, 76085-76206, 77905-78085, 80520-80624, 87602-87633. This sequence was then aligned with the B305D isoform C sequence using the DNA Star Seqman program and excess sequence was deleted in such a way as to maintain the sequence most similar to B305D. The final edited form of the chromosome 21 sequence
- 15 was 96.5% identical to B305D. This resulting edited sequence from chromosome 21 was then translated and found to contain no stop codons other than the final stop codon in the same position as that for B305D. As with B305D, the chromosome 21 sequence (provided in SEQ ID NO: 325) encoded a protein (SEQ ID NO: 326) with 384 amino acids. An alignment of this protein with the B305D isoform C protein (SEQ ID NO: 304) showed
- 20 90% amino acid identity.

- The cDNA sequence of B305D isoform C (SEQ ID NO: 301) was used to identify homologs by searching the High Throughput Genome Sequencing (HTGS) database (NCBI, National Institutes for Health, Bethesda, MD). Homologs were identified on Chromosome 2 (Clone ID 9838181), Chromosome 10 (Clone ID 10933022),
- 25 Chromosome 15 (Clone ID 11560284). These homologs shared greater than 90% identity with B305D isoform C at the nucleic acid level. All three of these homologs encode 384 amino acid ORFs that share greater than 90% identity with the amino acid sequence of SEQ ID NO: 304. Further searching of the GenBank database with the sequence of SEQ ID NO: 301 yielded a partial sequence homolog on Chromosome 22 (Clone ID 5931507).